

ORGANISING COMMITTEE

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IV international in-field radon intercomparison exercise for active and passive measurement systems in different indoor environments



June 2024 – April 2025

The Italian Radiation Protection Association (AIRP) dedicates itself to promoting initiatives aimed at harmonizing measurement and techniques in radiation protection. To date, AIRP has successfully organized three international intercomparison (IC) exercises focused on radon-in-air field assessments, drawing enthusiastic participation from numerous laboratories. These laboratories have demonstrated a keen interest in engaging in realistic IC exercises that replicate daily working exposure conditions. Building upon the valuable feedback received from previous editions and leveraging the expertise gained in this domain, AIRP is pleased to announce the promotion of a fourth in-field intercomparison. Additionally, in a novel development, this IC will include the testing of electrets in various configurations and continuous monitors.

INTERLABORATORY EXERCISES

A – Target: Passive measurement devices using track-etch detectors (SSNTD, in diffusion chambers) or electret ionisation chambers (EIC) in configuration LLT. For each set, 6 devices are required.

- 2 in air radon exposure levels will be provided;
- 6 months maximum sampling duration.

There is the opportunity to test an additional device enclosed in its own envelope, used for dispatchment.

B – Target: Electret ionisation chambers (EIC) in configuration SLT and LST. For each set, 6 devices are required.

- 2 in air radon exposure levels will be provided;
- 3 months maximum sampling duration.

C – Target: Electret ionisation chambers (EIC) in configuration SST. For each set, 6 devices are required.

- 2 in air radon exposure levels will be provided;
- 1-month maximum sampling duration.

D – Target: Continuous active monitors.

- 30 days maximum sampling duration.

The metrological traceability will be ensured by the Accredited Radon Calibration Laboratory of the Politecnico di Milano (calibration centre LAT n° 104). For each exercise a schedule will be drawn up and appropriate instructions will be sent once the number of participants is known. Each participant can provide a **maximum of 2 sets or 2 active monitors** for each exercise.

A maximum number of participants for each exercise, based on the number of registrations received, will be set. Participants are responsible for shipping passive devices and monitors. However, the organization will handle the return process exclusively for passive devices.

Each participant will receive a Certificate of Participation, containing all the information on the exposures and their respective outcomes. The overall results of the IC will be presented anonymously in one or more reports.

PROVISIONAL TIME SCHEDULE

- ✓ **March 2024:** Deadline for participants' registration;
- ✓ **April 2024:** Confirmation of participation;
- ✓ **June 2024:** Start of exercise A;
- ✓ **October 2024:** Start of exercise B;
- ✓ **November – December 2024:** Intercomparison exercise D;
- ✓ **December 2024:** Start of exercise C;
- ✓ **January 2025:** End of exercise A, B and C; deadline for presentation of measurement results of exercise D;
- ✓ **April 2025:** deadline for presentation of measurement results of exercises for passive devices;
- ✓ **June 2025:** deadline for sending analysis results to participants.

REGISTRATION

Laboratories should register via the appropriate webpage at www.airp-asso.it, in March **2024**.

REGISTRATION FEES

After receiving the confirmation of acceptance, the registration fees must be due by **November 30, 2024** via wire transfer.

First set of devices:	250 euro + VAT 22%
From the second set of devices:	200 euro + VAT 22%
Exercise D: for each active monitor	250 euro + VAT 22%

TECHNICAL SECRETARIAT

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